

wherein the outer surface of each segment strand has a flat surface forming a side of a regular polygon or an arc-shaped curve surface dented from the flat surface;

wherein each groove comprises an arc-shaped curve having a predetermined radius  $R$  centered about a vertex of the regular polygon and recessed from the outer surface of adjoining segment strands; and

wherein a connecting portion between an end of the outer surface of the segment strand and a most projected portion of the groove has a crooked shape having an acute angle.

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6. (Three Times Amended) An overhead cable comprising:

a tension-bearing core;

a conductive layer arranged at an outer circumference of the core; and

an outermost layer constituted by twisting together a plurality of segment strands and a plurality of grooves, each positioned at each boundary portion of adjoining segment strands, the segments and the grooves being spiraled along the longitudinal direction of the cable;

wherein the outer surface of each segment strand has a flat surface forming a side of a regular polygon or an arc-shaped curve surface dented from the flat surface,

each groove comprises an arc-shaped curve having a predetermined radius  $R$  centered about vertex of the regular polygon and recessed from the outer surface of adjoining segment strands, and

a connecting portion between an end of the outer surface of the segment strand and the most projected portion of the groove has a crooked shape having an acute angle;

wherein a diameter  $d$  of a circle circumscribing the vertex of the regular polygon is within a range from 12.8 mm to 42.6 mm;

wherein said regular polygon is made within a range from a regular 12-sided polygon to a regular 24-sided polygon;

wherein said straight line or arc-shaped curve is concave with respect to the straight line connecting adjoining vertexes of the regular polygon by a maximum depth  $D$

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22 and a ratio  $D/d$  between maximum depth  $D$  and the diameter  $d$  of circumscribing the vertexes of the regular polygon is within a range from 0.0 to 0.018;

wherein a ratio  $H/d$  between a maximum height  $H$  from a vertex of said regular polygon to the bottom of said groove and said diameter  $d$  is within a range from a 0.0045 to 0.0357; and

wherein a ratio  $H/R$  between said maximum height and said radius  $R$  is within a range from 0.08 to 1.0.

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21. (Amended) An overhead cable comprising:

a tension-bearing core;

a conductive layer arranged at an outer circumference of the core;

23 an outermost layer formed by twisting together a plurality of segment strands, and having a spiral groove along the longitudinal direction in the outer circumferential surface region of a boundary portion of each adjoining segment strand,

wherein in the contour of the cross-section of said outermost layer, each groove comprises an arc-shaped curve having a predetermined radius  $R$  centered about a vertex of a regular polygon;

wherein the intersection between sides of the grooves and the outer contour of the segment strands between said grooves defines a sharp, substantially discontinuous edge; and

wherein a diameter  $d$  of a circle circumscribing (the vertexes of the regular polygon) is within a range from 35 mm to 38 mm, the number of said segment strands is 12, and a ratio  $H/R$ , of a maximum height  $H$  from a vertex of the regular polygon to the bottom of the groove and the radius  $R$ , is less than 0.2.

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#### REMARKS

The specific changes to the amended claims are shown on a separate set of pages attached hereto and entitled VERSION WITH MARKINGS TO SHOW CHANGES MADE, which